



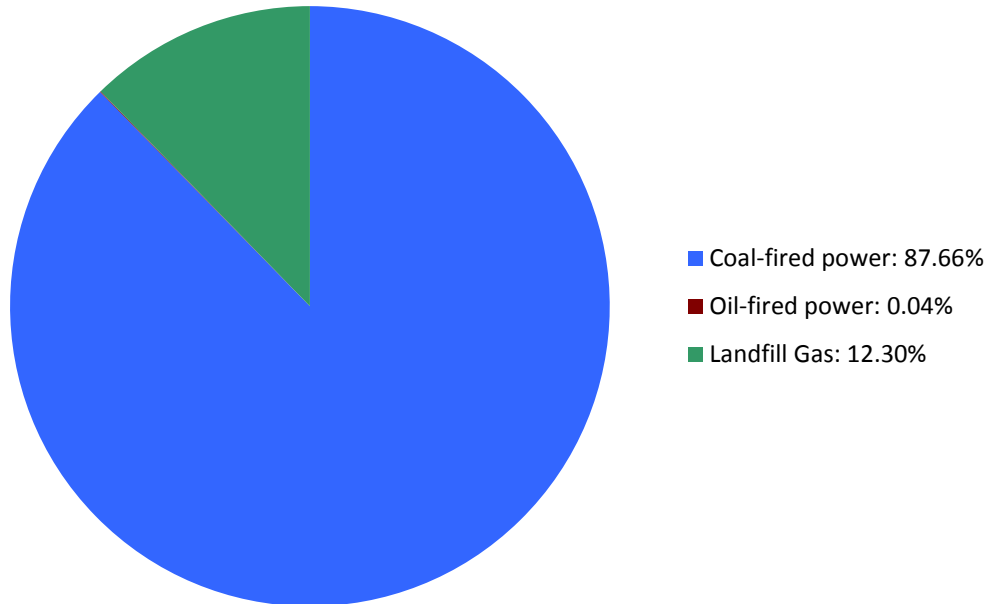
**Columbia Water and Light
Utility-Owned Electric Generation and Emissions in 2009**

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power	1,075,464	99.96%		75,961	99.95%	
Natural gas-fired power	0			0		
Oil-fired power	394	0.04%		35	0.05%	
Nuclear power						
Other non-renewable power						
Non-renewable total	1,075,858	100.00%	90.04%	75,996	100.00%	87.70%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas	119,043	100.00%		10,657	100.00%	
Renewable total	119,043	100.00%	9.96%	10,657	100.00%	12.30%
Grand total all sources	1,194,901	100.00%		86,654	100.00%	

Fuel Type	Physical Units	Number of Units
Bituminous Coal	Short Tons	41,364
Natural Gas	Mcf	0
Distillate Fuel Oil	Barrels	68
Landfill Gas	Mcf	297,604



Net Generation by Fuel Type, 2009 for Columbia Water and Light





Emissions from Electricity Generated in 2009: Columbia Water and Light

Plant	Carbon Dioxide (CO ₂) (Tons)	Carbon Monoxide (CO) (Tons)	Ammonia (NH ₃) (Tons)	Nitrogen Oxides (NO _x) (Tons)	Sulfur Dioxides (SO ₂) (Tons)
Columbia Water and Light	124,617.53	117.86	11.69	304.86	908.61
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Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM ₁₀ Total) (Tons)	Fine Particulate Matter (PM _{2.5} Total) (Tons)	Mercury (Hg) (LBS)
Columbia Water and Light	1.43	23.43	22.60	0.01

'NV' = Emissions value not available.

Note: The data provided includes only generation and emissions from power plants owned by the utility. It does not include generation or emissions from power purchased by the utility and distributed to its customers.



Pollution controls installed on plants operated by Columbia Water and Light

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Columbia	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Columbia	No NOX Controls Installed			



Missouri
Department of
Natural Resources

Missouri Power plants owned and operated by Columbia Water and Light in 2009

Plant	County	Primary Fuel	Capacity (MW)	Net Generation (MWh)
Columbia	Boone	Natural Gas	101	86,654

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html